

JAN 2 5 2010

BEFORE THE BOARD OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH

SECRETARY, BOARD OF OIL, GAS & MINING

IN THE MATTER OF THE REQUEST FOR AGENCY ACTION OF WOLVERINE GAS AND OIL COMPANY OF UTAH, LLC FOR AN ORDER AUTHORIZING THE FLARING AND VENTING OF GAS IN EXCESS OF THE AMOUNTS ALLOWED UNDER UTAH ADMIN. CODE RULE R649-3-20(1.1) FROM THE WOLVERINE FEDERAL ARAPIEN VALLEY 24-1 AND PROVIDENCE FEDERAL 24-4 WELLS LOCATED IN THE W½ OF SECTION 24, TOWNSHIP 20 SOUTH, RANGE 1 EAST, SLM, SANPETE COUNTY, UTAH

PETITIONER'S EXHIBITS

Docket No. 2010-010

Cause No. 269-01

Pursuant to Utah Admin. Code Rule R641-105-500, Petitioner Wolverine Gas and Oil Company of Utah, LLC ("Wolverine"), by and through its counsel of record, Beatty & Wozniak, P.C., hereby respectfully submits the following exhibits intended to be offered into evidence in support of its Request for Agency Action ("RAA") at the February 24, 2010 hearing on this cause:

EXHIBIT "A" – Wolverine's witnesses' resumes (collectively 5 pages):

- Richard D. Moritz, Esq. Vice President Land
- Emily Hartwick Geologist
- Thomas W. Zadick Consulting Reservoir Engineer
- Edward A. Higuera Manager Development and Petroleum Engineer

EXHIBIT "B" – Regional Location Plat of Wolverine Unit Area and Covenant and Providence Fields located therein (1 page).

EXHIBIT "C" – Lease and Well Location Plat (1 page).

EXHIBIT "D" – Pictures of Well Surface Locations (1 page).

EXHIBIT "E" – True and correct copies of return receipts indicating, as of January 22, 2010, receipt of a copy of the RAA by parties identified in the Certificate of Mailing dated January 13, 2010 on file in this cause (to be supplemented prior to hearing) (collectively 8 pages).

EXHIBIT "F" – Structural Configuration reflecting relation of Navajo 1 and Navajo 2 (1 page).

EXHIBIT "G" – Log Analyses/Reservoir Properties for Navajo 1 and Navajo 2 (collectively 2 pages).

EXHIBIT "H" – True and correct copies of the administrative approvals of the Bureau of Land Management and the Utah Division of Oil, Gas and Mining for additional testing and flaring and venting pursuant to NTL-4A and Utah Admin. Code Rule R649-3-19(3) and R649-3-20 (1.2) and (3) (previously submitted as Exhibit "1" to the RAA) (collectively 12 pages).

EXHIBIT "I" — Test Result Summaries for Navajo 1 and Navajo 2 (collectively 2 pages).

EXHIBIT "J" — Gas Analyses of the Navajo 1 and 2 (previously submitted as Exhibit "2" to the RAA) (collectively 2 pages).

EXHIBIT "K" – Hydrocarbons-in-Place Estimate (1 page).

EXHIBIT "L" – Reservoir Modeling Objective Summary (1 page).

EXHIBIT "M" – Relative Permiabilities (collectively 2 pages).

EXHIBIT "N" – Solution GOR and Formation Volume Factor (1 page).

EXHIBIT "O" – Oil Density and Viscosity (1 page).

EXHIBIT "P" – 24-1 and 24-4 Well Pressure-Transient Analyses ("PTA's") (collectively 2 pages).

EXHIBIT "Q" – Reservoir Modeling Conclusions and Recommendations (1 page).

EXHIBIT "R" – Basis for Gas Disposition Economic Evaluation (1 page).

EXHIBIT "S" – Two Well Model Forecast (1 page).

EXHIBIT "T" – Flaring and Venting Option Economics (1 page).

EXHIBIT "U" – Re-injection Option Economics (1 page).

EXHIBIT "V" – Treatment, Transportation and Sale Option Economics (1 page).

Respectfully submitted this 25th day of January, 2010.

BEATTY & WOZNIAK, P.C.

Prederick M. MacDonald

6925 Union Park Center, Suite 525 Cottonwood Heights, UT 84047

Telephone: (801) 566-8446

Telephone: (801) 566-8446 Facsimile: (801) 566-8447

E-Mail: FMacDonald@bwenergylaw.com

Attorneys for Petitioner Wolverine Gas and Oil

Company of Utah, LLC

RICHARD MORITZ Vice President – Land

Mr. Richard D. Moritz is Vice President – Land for Wolverine Gas and Oil Corporation. He is also a Member of Wolverine Gas and Oil Company of Utah, LLC, the Operating Company for the Wolverine Federal Unit. He has been with the company for over 25 years. Mr. Moritz received his B.A. in Political Science and Economics from Hope College in 1976 and his J.D. from Thomas M. Cooley Law School in Michigan in 1980. Mr. Moritz is recognized as an expert in Petroleum Land Management and has testified on numerous occasions before the Oil and Gas Advisory Committee in Michigan. He is responsible for supervising and coordinating the Wolverine Federal Unit in Utah with the Bureau of Land Management. He has negotiated and drafted agreements, including Joint Operating Agreements, Farmouts, and Purchase and Sale Agreements, covering lands within Utah, Wyoming, Michigan, and numerous other states.

Mr. Moritz is a member of the American Bar Association, the Michigan Bar Association, and the Grand Rapids Bar Association and has served on the Standing Committee of the Michigan Bar Association for Oil and Gas Law and on the Real Property Law Section Committee on Oil and Gas for 30 years. He is a member of the American Association of Petroleum Landmen, the Michigan Association of Petroleum Landmen, the Michigan Oil and Gas Association, and several Rocky Mountain oil and gas associations. He is also a past member of the Board of Directors of the Michigan Oil and Gas Association. He is a frequent speaker for the Michigan Oil and Gas Association, the Michigan Association of Petroleum Landmen, and the Institute for Continuing Education in Michigan.

EMILY HARTWICK Geologist

Education

- 2007 -2010 Western Michigan University, Kalamazoo MI 49908
 - Master of Science in Geology in May 2010
- 2001 2005 Central Michigan University, Mt. Pleasant MI 48804
 - Bachelor of Science in Geology in December 2005
- 1998 2001 Cass City High School, Cass City MI 48726

Additional Instruction

- AAPG Structural Geology Fall Education Conference, Houston TX, December 2008
- AAPG Principles of Reservoir Characterization course, Houston TX, April 2008
- PetroSkills Well Log Interpretation course, Houston TX, March 2006
- GESXplorer and PRIZM software course, Grand Rapids MI, January 2006
- Geologic Field Course through University of Missouri-Columbia, May-July 2005
- Fluid Inclusion Short Course through University of Kansas, June 2004

Associations

- Society of Petrophysicists and Well Log Analysts, member since 2009
- American Association of Petroleum Geologists, member since 2006
- Geologic Society of America, member since 2004
- Secretary, Student Chapter of American Institute of Professional Geologists 2003-2005

Work Experience

- January 2006 Current: Geologist for Wolverine Gas and Oil Corporation, Grand Rapids MI
- July December 2005: Intern with Wolverine Gas and Oil Corporation, Grand Rapids MI
- August 2003 May 2005: Teaching Assistant for Geology 101/130 at Central Michigan University

Thomas William Zadick

B.S. and M.S. in Chemical Engineering Registered Professional Engineer

Address: 4904 Melrose Park Drive

Colleyville, Texas 76034

e-mail: twzpe@twzadickpe.com

Phone: (817) 684-1104 (O)

(817) 354-1836 (H)

A results-oriented engineer and project manager with over 30 years experience in reservoir engineering, formation evaluations and economic analysis.

EXPERIENCE PROFILE

THOMAS W. ZADICK, P.E.

April 1, 1999 to present

Consulting reservoir engineering services specializing in fluid flow through porous media, complex-hydrocarbon phase behavior, recovery enhancement, well-test analysis and process optimization. Licensed user of GCOMP, PHSSIM, COMET3 and GASMOD reservoir simulation models and OFM, SAPHIR, TOPAZ AND RTA well test models. Competent user of OGRE, PEEP, RPI, IMEX, CMGProp, and Office Pro 2000. For more information see http://www.twzadickpe.com/

UNION PACIFIC RESOURCES COMPANY

October 1976 to March 31, 1999

Senior Engineering Advisor and Senior Scientist

April 1994 to March 31, 1999

Conducted special studies and evaluated reservoir performance for internal clients. These projects include existing EOR projects, new EOR projects, acquisitions and bid analysis, optimal plans of depletion and research into new or improved methods for EOR. Areas of specialized expertise are fluid flow in porous media, enhanced recovery in conventional and dual porosity reservoirs, hydrocarbon fluid behavior and geochemical methods for testing reservoir continuity.

Awarded: W. L. Adams Petrotech Fellow and promoted to Senior Scientist in 1995.

Senior Engineering Advisor

February 1989 to April 1994

Supervised the Northern Engineering group (7 engineers and 2 technical aides). Responsible for prospect and project analysis, formation evaluations, stimulation design and optimization, reservoir analysis, unitization, enhanced recovery and acquisitions. Project manager for three major drilling programs that were completed ahead of schedule and under Budget. Responsible for developing annual Budget, Long Range Plan and Reserves report.

Regional Engineering Manager

May 1986 to February 1989

Supervised 6 direct reports including 4 supervisors and 39 professionals in the Denver Region Engineering department. Responsibilities included project analysis, prospect support, drilling, formation evaluations, stimulation, reservoir analysis, process design and plant optimization. Coordinated all hiring, training and professional development for all engineers in the region. Responsible for developing and implementing annual Budget, Long Range Plan and Reserves report.

Regional Production Manager

May 1985 to May 1986

Supervised 10 professionals. Monitored all production operations, engineering, acquisitions and drilling for three operating Divisions in the Denver Region. Directed the hiring, training and development of Production Department personnel. Reviewed and modified all Business Cycle reports to insure accuracy, completeness and consistency within the Region.

Division Production Manager

February 1983 to May 1985

Supervised 3 direct reports. Managed the engineering, drilling and production operations for the Pacific Division with 225 employees and 11,200 BOPD. Implemented a large-scale immiscible CO₂ pilot. Designed and implemented a tertiary steamflood pilot using DOE funding. Evaluated and recommended a major steamflood/cogeneration project to management. WIO representative for a major OCS discovery.

Chief Engineer and Division Engineer

January 1980 to February 1983

Supervisor Reservoir Engineering

August 1977 to December 1979

Senior Reservoir Engineer

October 1976 to July 1977

Managed and supervised operations and conducted reservoir analysis for properties in the Denver Region. Utilized a 3-dimensional compositional simulator to model the performance of a rich retrograde-condensate reservoir where pressure is being maintained by gas injection. Developed an optimal plan of depletion for several major Overthrust discoveries, several of which required full pressure maintenance to optimize hydrocarbon recovery.

SHELL OIL COMPANY

March 1971 to October 1976

Senior Reservoir/Reservoir Engineer

1971 to 1976

Evaluated secondary and tertiary potential for Michigan oil and gas-condensate reservoirs. Developed an optimal producing strategy for Michigan gas fields. Directed two Micellar-polymer pilot floods in Illinois and evaluated performance of a CO₂ flood in West Texas. As a member of a project team evaluated the feasibility of infill drilling in a large West Texas Carbonate waterflood. Developed and supervised laboratory testing of CO₂ process for large West Texas Carbonate field.

EDUCATION

Montana State University, Bozeman, Montana

Graduated with highest honors; Phi Eta Sigma, Tau Beta Pi and Phi Kappa Phi

B.S. in Chemical Engineering in 1969 (GPA 3.6/4.0) M.S. in Chemical Engineering in 1971 (GPA 4.0/4.0) Thesis: The Catalytic Reduction of Calcium Sulfate

INDUSTRY SCHOOLS

- * Phase I, II and III schools in Production, Formations Evaluations, Reservoir Engineering, Economics, Enhanced Recovery and Numerical Simulation at Shell Development
- * Industry and in-house schools in economics, simulation, geostatisitics and supervision
- * Executive Mineral Program at Colorado School of Mines in 1981
- * Penn State Executive Management Program in 1986

PERSONAL DATA

Date of birth: July 22, 1947

Health: Excellent

Place of Birth: Monte Vista, Colorado

Marital Status: Married

Professional Activities: SPE of AIME, Fort Worth SPE Board of Directors, 2003 Program Chair, 2004 Section Chair, SPE Professional Registration Committee, Chair of SPE Reservoir Engineering Award Committee, MSU College of

Engineering Industry Advisory Panel, Fort Worth Wildcatters.

Hobbies: Sports, Jogging, Photography, and Backpacking.

A MORE DETAILED RESUME, REFERENCES AND PUBLICATIONS AVAILABLE UPON REQUEST

EDWARD A. HIGUERA, P.E. Manager-Development

Mr. Edward A. Higuera is Manager-Development for Wolverine Gas and Oil Corporation. Mr. Higuera received his B.S Petroleum Engineering from Texas A&M University in 1985. He is a registered Professional Engineer in the State of Michigan.

Mr. Higuera started his career in the oil industry with Conoco, Inc. During his career, he has worked on projects in Oklahoma, Michigan, Wyoming, Ohio, and Utah. He has been with Wolverine for the last five years. In his current capacity, Mr. Higuera is responsible for engineering and operations, which includes permitting, drilling operations, completions, facility projects, and field management. He is a member of the Society of Petroleum Engineers.

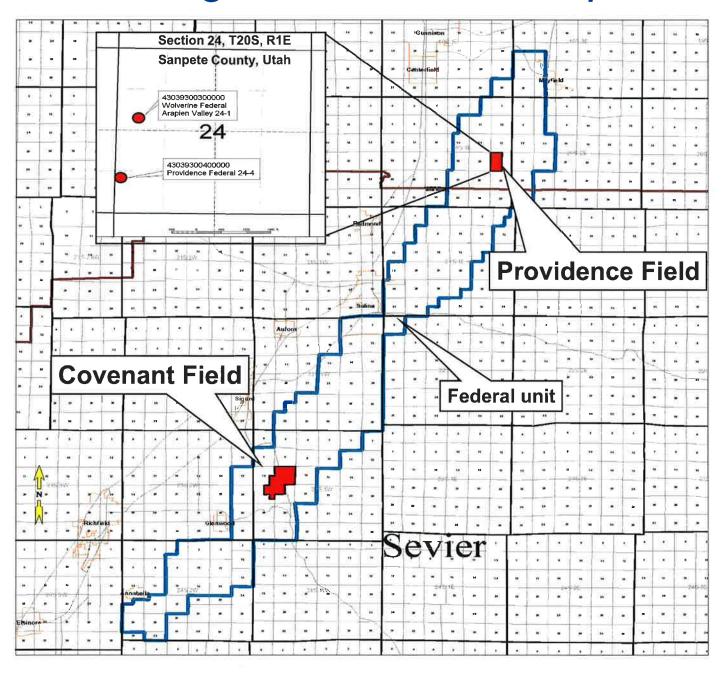
Continuing Education/Industry Short-courses

- Reservoir Engineering-Fluid Injection
- Reservoir Management for Production Geologist & Reservoir Engineers
- Production Systems Design
- Waterflood Systems Engineering & Operations
- Reciprocating Compressors
- Gas Production Engineering & Operations
- Matrix Acidizing
- Hydraulic Fracturing
- Completion Operations for Onsite Supervision
- Horizontal Well Applications
- Corrosion and Materials for Production Operations
- Electrical Submersible Pumps
- Water Treatment Principles & Design, University of Oklahoma
- Hydrology, Western Michigan University
- Groundwater Contamination, Western Michigan University
- Remediation Engineering, Western Michigan University

Professional Affiliations

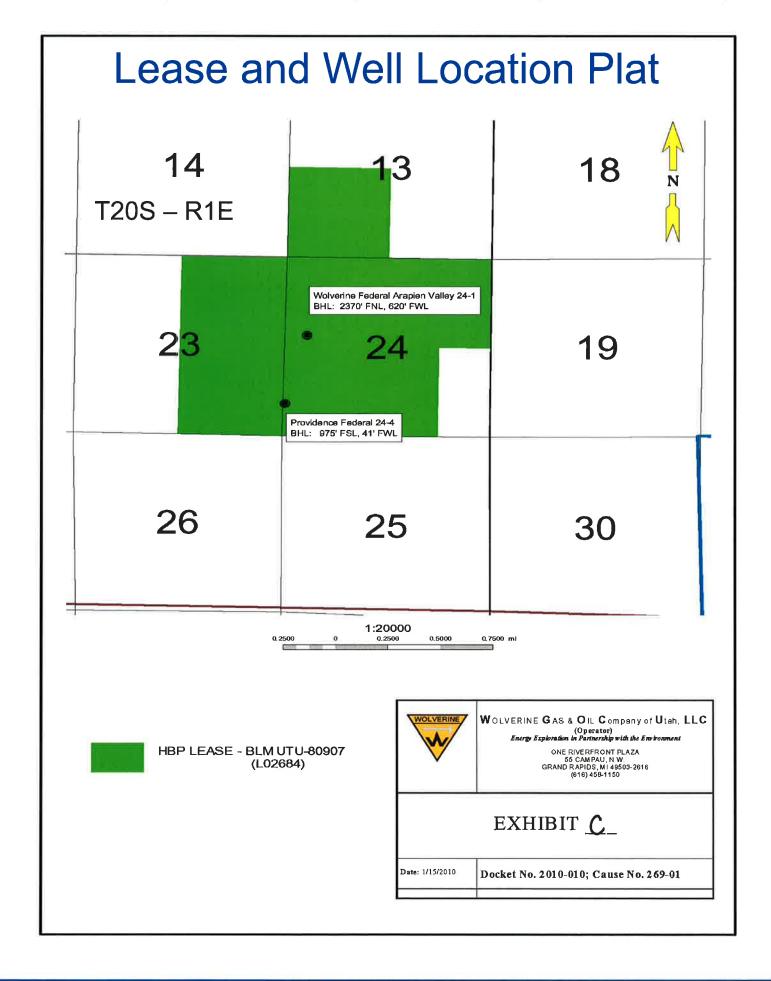
Registered Professional Engineer in Michigan Society of Petroleum Engineers, member

Regional Location Map

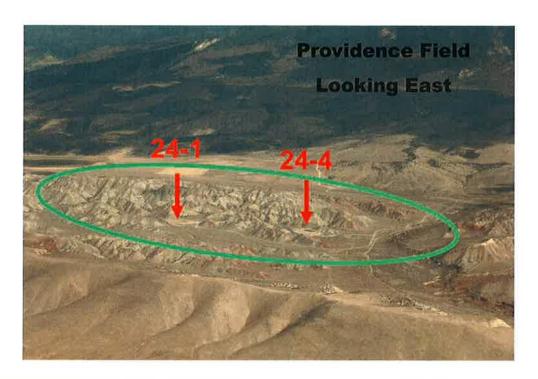


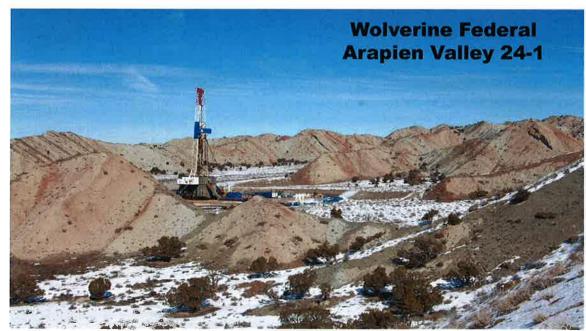






Surface View of Wells







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 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece or on the front if space permits. Article Addressed to: 	B. Received by (Printed Name) C. Date of Delivery
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EXHIBIT E

PS Form 3811, February 2004

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or on the front if space permits.	Helen Bardola 1-1
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Heritage Oil and Gas, LLC	**
One Riverfront Plaza	
55 Campau N.W. Grand Rapids, MI 49503-2616	3. Service Type Certified Mail □ Express Mall
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PS Form 3811, February 2004 Domestic R SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. Article Addressed to: North Ridge Capital, L.L.C. One Riverfront Plaza 55 Campau N.W.	4. Restricted Delivery? (Extra Fee) Yes 71 0002 1125 1743 Seturn Receipt 102595-02 COMPLETE THIS SECTION ON DELIVERY. A. Signature Add Add B. Received by (Printed Name) C. Date of D. Is delivery address different from Item 1? Yes If YES, enter delivery address below: No 3. Service Type Certified Mail

PS Form 3811, February 2004

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse	A_Signature X Mulitaa Walker Agent Addressee
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Legacy Energy II, LLC	If YES, enter delivery address aglow A D No
277 S. Rose Street, Suite 3300 Kalamazoo, MI 49007-4722	3. Service Type Certified Mail Express Mail Registered Return Receipt for Merchandise Insured Mail C.O.D. Restricted Delivery? (Extra Fee) Yes
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 SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if energy reserves. 	A. Signature X. D. A. Signature X. D. A. Signature Address B. Received by (Printed Name) C. Date of Delive ()(-(-)-1)
or on the front if space permits. 1. Article Addressed to:	D. Is delivery address different from Item 1? Yes
	If YES, enter delivery address below:
Global Asset Management Salina 4, LLC P.O. Box 158 Grandville, MI 49468-0158	If YES, enter delivery address below: No No No Service Type Certified Mall Express Mail Hegistered Return Receipt for Merchandis
Global Asset Management – Salina 4, LLC P.O. Box 158	If YES, enter delivery address below: No 3. Service Type Certified Mall Express Mail Hegistered Return Receipt for Merchandis Insured Mail C.O.D.
Global Asset Management Salina 4, LLC P.O. Box 158 Grandville, MI 49468-0158	If YES, enter delivery address below:
Global Asset Management Salina 4, LLC P.O. Box 158 Grandville, MI 49468-0158	3. Service Type Certified Mall
Global Asset Management Salina 4, LLC P.O. Box 158 Grandville, MI 49468-0158	If YES, enter delivery address below: No 3. Service Type Certified Mall
Global Asset Management Salina 4, LLC P.O. Box 158 Grandville, MI 49468-0158	If YES, enter delivery address below: No 3. Service Type Certified Mall
Global Asset Management — Salina 4, LLC P.O. Box 158 Grandville, MI 49468-0158 2. Article Númber	If YES, enter delivery address below: No 3. Service Type Certified Mall
Global Asset Management Salina 4, LLC P.O. Box 158 Grandville, MI 49468-0158 2. Article Number	If YES, enter delivery address below: No 3. Service Type
Global Asset Management Salina 4, LLC P.O. Box 158 Grandville, MI 49468-0158 2. Article Númber	If YES, enter delivery address below: No 3. Service Type Certified Mail Express Mail Registered Return Receipt for Merchandis Insured Mail C.O.D. 4. Restricted Delivery? (Extra Fee) Yes Yes COMPLETE THIS SECTION ON DELIVERY A. Signature Agent Addresse Addresse Addresse B. Received by (Printed Name) C. Date of Delivery
Global Asset Management Salina 4, LLC P.O. Box 158 Grandville, MI 49468-0158 2. Article Number	3. Service Type Certified Mall Express Mail Registered Return Receipt for Merchandis Insured Mail C.O.D. 4. Restricted Delivery? (Extra Fee) Yes Yes 710 002 1125 5055 Seturn Receipt 102595-02-M-154
Global Asset Management Salina 4, LLC P.O. Box 158 Grandville, MI 49468-0158 2. Article Númber	3. Service Type Certified Mall Express Mail Registered Return Receipt for Merchandis Insured Mail C.O.D. 4. Restricted Delivery? (Extra Fee) Yes Yes 710 002 1125 5055 Seturn Receipt 102595-02-M-154

Domestic Return Receipt

PS Form 3811. February 2004

400505 00 11 4540

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. 	A. Signature
 Print your name and address on the reverse 	X Helin Baiden Addresses
so that we can return the card to you.	B. Received by (Printed Name) C. Date of Delivery
Attach this card to the back of the mailpiece,	Helene Bardolph 1-18-10
or on the front if space permits.	D. Is delivery address different from Item 1? Yes
Article Addressed to:	If YES, enter delivery address below:
Richard D. & Margaret M. Moritz,	1
One Riverfront Plaza	11
55 Campau N.W.	
Gran <u>d</u> Rapids, MI 49503	3. Service Type Certified Mail
5506.34	Registered
3.000.54	☐ Insured Mail ☐ C.O.D.
	4. Restricted Delivery? (Extra Fee)
2. Article Number 7007 07	710 0002 1125 1774
(Transfer from service label) PS Form 3811, February 2004 Domestic Re	
Domestic Re	eturn Receipt 102595-02-M-1540
	,
SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
	COMPLETE THIS SECTION ON DELIVERY
Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.	A. Signature
Print your name and address on the reverse	X Comand Agent
so that we can return the card to you. Attach this card to the back of the mailpiece,	B. Received by (Printed Name) C. Date of Deliver
or on the front if space permits.	XONP COMONWIGHT
Article Addressed to:	D. Is delivery address different from Item 1? Yes
	If YES, enter delivery address below: No
- Contraction of the Contraction	
OXY USA, Inc.	
5 Greenway Plaza	
Houston, TX 77046-0504	
112 / / 0 / 0 / 0 / 0 / 0 / 0 / 0 / 0 / 0	3. Service Type Certified Mail □ Express Mail
	☐ Registered ☐ Return Receipt for Merchandise
	☐ Insured Mail ☐ C.O.D.
	4. Restricted Delivery? (Extra Fee) ☐ Yes
2. Article Number	
(Transfer from service label)	7 0710 0002 1125 2474
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PS Form 3811, February 2004 Domestic Reservice Reservic	COMPLETE THIS SECTION ON DELIVERY A. Signature X

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. 	A. Signature
Print your name and address on the reverse	X / Clask - Addressee
so that we can return the card to you. Attach this card to the back of the mailpiece,	B. Received by (Printed Name) C. Date of Delivery
or on the front if space permits.	D. Is delivery address different from Item 1?
. Article Addressed to:	If YES, enter delivery address below;
RD Partners Texas II, LLC	1
2204 Timberlock Place, Suite 285	
The Woodlands, TX 77380	3. Service Type
	Certified Mail
	☐ Registered ☐ Return Recelpt for Merchandise ☐ Insured Mail ☐ C.O.D.
	4. Restricted Delivery? (Extra Fee)
. Article Number 700	
(Transfer from service label)	
S Form 3811, February 2004 Domestic I	Return Receipt 102595-02-M-1540
SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY.
Complete items 1, 2, and 3. Also complete	A. Signature
item 4 if Restricted Delivery is desired. Print your name and address on the reverse	X Agent
so that we can return the card to you.	B. Received by (Printed Name) C. Date of Delivery
Attach this card to the back of the mailpiece, or on the front if space permits.	B. Received by (<i>Printed Name</i>) C. Date of Delivery
. Article Addressed to:	D. Is delivery address different from Item 1? ☐ Yes If YES, enter delivery address below: ☐ No
	If YES, enter delivery address below: No
RDP Salina Partners, LLC	
2204 Timberlock Place, Suite 285	Δ.
	111
The Woodlands, TX 77380	
	3. Service Type Certified Mail
	3. Service Type Certified Mail
	Certified Mail Registered Insured Mail C.O.D.
The Woodlands, TX 77380	Certified Mail Registered Insured Mail C.O.D. Restricted Delivery? (Extra Fee) Yes
The Woodlands, TX 77380 Article Number (Transfer from service label)	Certified Mail Registered Insured Mail C.O.D. Restricted Delivery? (Extra Fee) Yes
The Woodlands, TX 77380 Article Number (Transfer from service label)	Certified Mail Registered Insured Mail C.O.D. Restricted Delivery? (Extra Fee) Yes
The Woodlands, TX 77380 Article Number (Transfer from service label)	Certified Mail Registered Insured Mail C.O.D. 4. Restricted Delivery? (Extra Fee) 7 0710 0002 1125 1712
The Woodlands, TX 77380 Article Number (Transfer from service label) S Form 3811, February 2004 Domestic I	Counties Asia Express Mail Registered Return Receipt for Merchandise Insured Mail C.O.D.
The Woodlands, TX 77380 Article Number (Transfer from service label) S Form 3811, February 2004 Domestic Of the Complete THIS SECTION	Certified Mail Registered Insured Mail C.O.D. 4. Restricted Delivery? (Extra Fee) 7 0710 0002 1125 1712
The Woodlands, TX 77380 Article Number (Transfer from service label) S Form 3811, February 2004 Domestic I SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.	Certified Mail
The Woodlands, TX 77380 Article Number (Transfer from service label) S Form 3811, February 2004 Domestic I SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you.	Conficient Mail Registered Registered Registered Return Receipt for Merchandise C.O.D. Restricted Delivery? (Extra Fee) Pes Return Receipt COMPLETE THIS SECTION ON DELIVERY A. Signature X Agent Addressee
The Woodlands, TX 77380 Article Number (Transfer from service label) S Form 3811, February 2004 Domestic I SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you.	Certified Mail
The Woodlands, TX 77380 Article Number (Transfer from service label) S Form 3811, February 2004 Domestic I BENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailplece, or on the front if space permits.	Contified Mail
The Woodlands, TX 77380 Article Number (Transfer from service label) S Form 3811, February 2004 Domestic I BENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailplece, or on the front if space permits.	Contified Mail
The Woodlands, TX 77380 Article Number (Transfer from service label) S Form 3811, February 2004 Domestic of the Market Complete items 1, 2, and 3. Also complete items 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailplece, or on the front if space permits. Article Addressed to:	Contified Mail
Article Number (Transfer from service label) S Form 3811, February 2004 Domestic I SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailplece, or on the front if space permits. Article Addressed to: Jacob Mast	Contified Mail
The Woodlands, TX 77380 Article Number (Transfer from service label) S Form 3811, February 2004 Domestic I SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailplece, or on the front if space permits. Article Addressed to: Jacob Mast 396 Pinellas Bayway #11	Contified Mail
The Woodlands, TX 77380 Article Number (Transfer from service label) S Form 3811, February 2004 Domestic I SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailplece, or on the front if space permits. Article Addressed to: Jacob Mast	Complete This section on Delivery A. Signature B. Received by (Printed Name) C. Date of Delivery C. Date of Delivery C. Date of Delivery C. Date of Delivery D. Is delivery address different from Item 1? If YES, enter delivery address below: 3. Service Type
The Woodlands, TX 77380 Article Number (Transfer from service label) S Form 3811, February 2004 Domestic I SENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailplece, or on the front if space permits. Article Addressed to: Jacob Mast 396 Pinellas Bayway #11	Complete This section on Delivery A. Signature B. Received by (Printed Name) C. Date of Delivery C. Date of Delivery C. Date of Delivery C. Date of Delivery D. Is delivery address different from Item 1? Yes If YES, enter delivery address below: 3. Service Type Certified Mail Express Mail
The Woodlands, TX 77380 Article Number (Transfer from service label) S Form 3811, February 2004 Domestic I BENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailplece, or on the front if space permits. Article Addressed to: Jacob Mast 396 Pinellas Bayway #11	Complete This section on Delivery A. Signature B. Received by (Printed Name) C. Date of Delivery C. Date of Delivery C. Date of Delivery C. Date of Delivery D. Is delivery address different from Item 1? If YES, enter delivery address below: 3. Service Type

PS Form 3811, February 2004

Domestic Return Receipt

) 102595-02-M-1540

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse	Agent Addressee
so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.	B. Received by (Printed Name) C. Date of Delivery
. Article Addressed to:	D. Is delivery address different from Item 1? Yes If YES, enter delivery address below: No
Penneco Exploration Company, LLC P.O. Box 300	TAN ON THE PROPERTY OF THE PRO
Delmont, PA 15626-0300	3. Service Type Certified Mail Registered Insured Mail C.O.D.
	4. Restricted Delivery? (Extra Fee) ☐ Yes
(Transier from service label)	10 0002 1125 1842
S Form 3811, February 2004 Domestic F	Return Receipt 102595-02-M-1540
<u>*</u>	
ENDER, COMPLETE THE SECTION	COMPLETE THE STATE OF THE STATE
SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.	A. Signature
Print your name and address on the reverse so that we can return the card to you.	Addressee
Attach this card to the back of the mailpiece, or on the front if space permits.	B. Received by (Printed Name) C. Date of Deliver
. Article Addressed to:	D. Is delivery address different from item 1? Yes If YES, enter delivery address below: No
	g I
Capelle Energy, LLC	9
10195 Hanna Lake Rd., S.E.	
	3. Service Type
10195 Hanna Lake Rd., S.E.	Certified Mall
10195 Hanna Lake Rd., S.E.	Certified Mall
10195 Hanna Lake Rd., S.E. Caledonia, MI 49316	Certified Mall
10195 Hanna Lake Rd., S.E. Caledonia, MI 49316 Article Númber 7007 0710	Certified Mall
10195 Hanna Lake Rd., S.E. Caledonia, MI 49316 Article Númber 7007 0710	Certified Mall Express Mail Registered Return Receipt for Merchandise Insured Mail C.O.D.
10195 Hanna Lake Rd., S.E. Caledonia, MI 49316 Article Númber 7007 0710 Gransfer from service lab	Certified Mall Express Mail Registered Return Receipt for Merchandise Insured Mail C.O.D.
10195 Hanna Lake Rd., S.E. Caledonia, MI 49316 Article Number 7007 0710 (Transfer from service laboration of the complete service) ENDER: COMPLETE THIS SECTION Complete Items 1, 2, and 3, Also complete	Complete THIS SECTION ON DELIVERY Control of the
Article Númber (Transfer from service labo S Form 3811, February 2004 Domestic F ENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 If Restricted Delivery is desired. Print your name and address on the reverse	Contified Mall
Article Númber 7007 0710 7	Cortified Mall
Article Number 7007 0710 Article Number 7007 0710 Form 3811, February 2004 Domestic F ENDER: COMPLETE THIS SECTION Complete items 1, 2, and 3. Also complete item 4 If Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.	Contified Mall
Caledonia, MI 49316 Article Number (Transfer from service labo S Form 3811, February 2004 Domestic F Complete Items 1, 2, and 3. Also complete item 4 If Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. Article Addressed to:	Complete This Section on Delivery A. Signature Agent Agent Addressee
Caledonia, MI 49316 Article Number 7007 0710 From 3811, February 2004 Domestic Form 3811, February 2004 Domestic Form 4 If Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. Article Addressed to:	Complete This Section on Delivery A. Signature Agent Agent Addressee
Caledonia, MI 49316 Article Númber 7007 0710 7007	Certified Mall Express Mail Registered Return Receipt for Merchandise Insured Mail C.O.D.
Article Number 7007 0710 7	Complete This Section on Delivery A. Signature Agent Agent Addressee

PS Form 3811, February 2004 Don

Domestic Return Receipt

102595-02-M-1540

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
 Complete items 1, 2, and 3. Also complete item 4 If Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 1. Article Addressed to: ORION Resources, LLC One Riverfront Plaza 55 Campau N.W. Grand Rapids, MI 49503-2616 	A. Signature X / Land Back Agent Address B. Received by (Printed Name) C. Date of Delive L-19-70 D. Is delivery address different from Item 1? Yes If YES, enter delivery address below: No 3. Service Type Express Mall Registered Return Receipt for Merchandis Insured Mail C.O.D. 4. Restricted Delivery? (Extra Fee) Yes
2. Article Number (Transfer from service label)	0710 0002 1125 2481

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-15

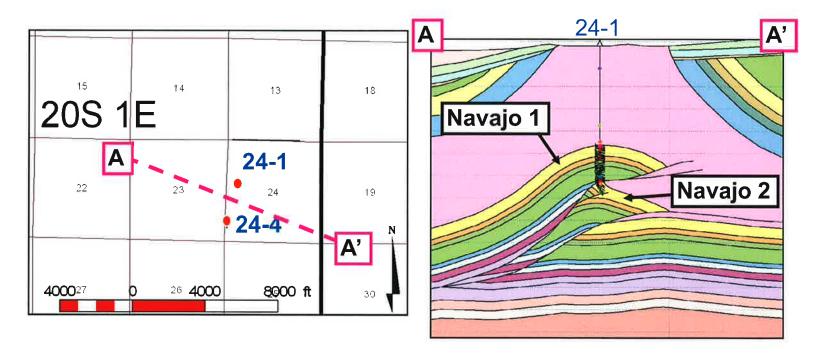
Structural Configuration

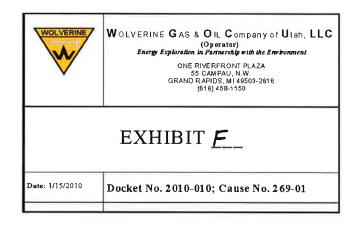
NAVAJO 1

- Structurally highest sheet in the Providence Field structure
- Fault-bend fold provides structural closure

NAVAJO 2

- The Navajo 2 is an isolated horse block under the main fault-bend fold
- Fault seal occurs along the western edge of the Navajo 2





Log Analysis/Reservoir Properties

WOLVERINE GAS & OIL Company of Utah, LLC (Operator) Energy Exploration in Parinership with the Environment ONE RIVERFRONT PLAZA 55 CAMPAU, N W GRAND RAPIDS, MI 49509-2616 (616) 458-1150 EXHIBIT GI ute: 1/15/2010 Docket No. 2010-010; Cause No. 269-01

24-1

Resistivity

RO

2000

2000

Porosity

PEF(PE)

RHOB

G/C3

Fluid

SWE

Oil

GR

CALI

GR

Depth

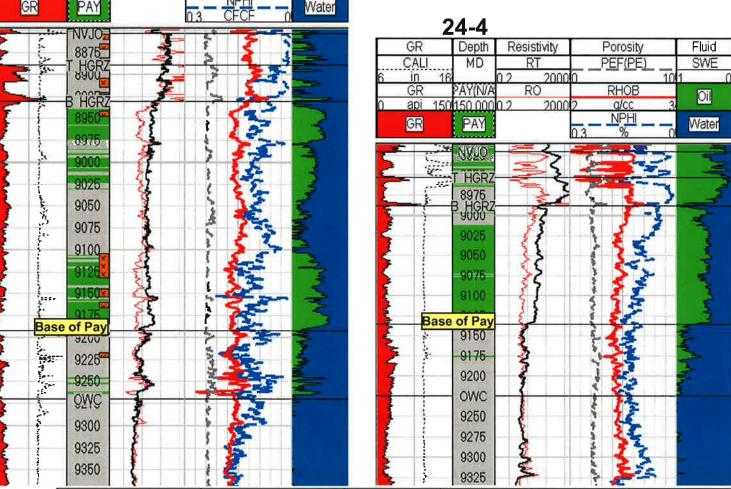
MD

PAY(N/A

GAPI 1501150 00010 2

Navajo 1

- Initial Reservoir Temperature: 193°F @ 8,940' TVD
- Initial Reservoir Pressure: 3545 psi
- Rw: 0.265 ohmm @ 70°F
- Average Porosity (core): 10.7%
- Average Permeability (core): 8 mD
- Petrophysical Parameters:
 - a=1, m =2, n =2
- Pay Cutoff Criteria:
 - Porosity > 7%
 - Sw < 60%

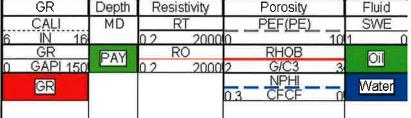


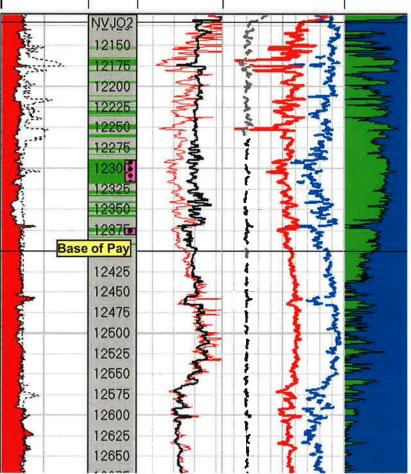
	Gross Feet above Base Pay	Gross Average Porosity	Net Feet of Pay	Net/Gross Ratio	Net Average Porosity	Net Average Sw
	(ft)	(%)	(ft)	(%)	(%)	(%)
AV 24-1	261.5	10.3	134	51.2	12.1	49.1
PF 24-4	148.5	10.8	122.5	82.5	11.7	43.2

Log Analysis/Reservoir Properties

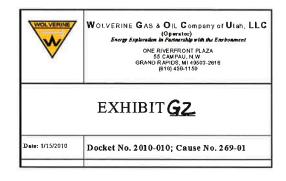
Navajo 2

24-1





- Initial Reservoir Temperature: 244 °F @ 12,300' TVD
- Initial Reservoir Pressure: 4,930 psi
- R_w: 0.265 ohmm @ 70°F
- Average Porosity (core): 5.5 %
- Average Permeability (core): <3.6 mD
- Petrophysical Parameters:
 - a = 1
 - m = 2
 - n = 2
- Pay Cutoff Criteria:
 - Porosity > 7%
 - $S_w < 60\%$



	Gross Feet above Base Pay	Gross Average Porosity	Net Feet of Pay	Net/Gross Ratio	Net Average Porosity	Net Average Sw
	(ft)	(%)	(ft)	(%)	(%)	(%)
AV 24-1	279	6.1	95.5	34.2	9.5	33.3
PF 24-4	0		0	: + :		



United States Department of the Interior



BUREAU OF LAND MANAGEMENT Richfield Field Office 150 East 900 North Richfield, Utah 84701 http://www.blm.gov

IN REPLY REFER TO: 3160 UT050

October 14, 2008

Ellis Peterson Sr. Production Engineer Wolverine Gas and Oil company of Utah, LLC 55 Campau NW Grand Rapids, Michigan 49503

Re:

Well No. Wolverine Federal Arapien Valley 24-1 SW1/4NW1/4, Sec. 24, T. 20 S., R. 1 E., SLB & M. Sevier County, Utah

Lease No. U-80907, Unit No. U-80800X

Gentlemen:

This correspondence is in regard to the Sundry Notice submitted September 12, 2008, requesting continued testing with gas venting for the referenced well. After a review by this office, the request is approved.

If you have any other questions concerning this matter, please contact Pam Hart of this office at (435) 896-1590.

Stan Andersen

Supervisor Natural Resource

Specialist

UDOGM cc:

Form 3160-5 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an

	FORM APPROVED OM B No. 1004-0137 Expires: March 31, 2007
	5. Lease Serial No. UTU-80907
	If Indian, Allottee or Tribe Name NA
	7. If Unit or CA/Agreement, Name and/or No. Wolverine Unit
	8. Well Name and No. Wolverine Federal Arapien Valley 24-1
	9. API Well No. 43-039-30030
	 Field and Pool, or Exploratory Area Wildcat
	11. County or Parish, State Sanpete County, Utah
_	EPORT, OR OTHER DATA
n (Station	tt/Resume) Water Shut-Off Well Integrity Other Continued testing
ily Ab	andon with gas venting
sposal	
and true Require letion ir	y proposed work and approximate duration thereof. e vertical depths of all pertinent markers and zones. d subsequent reports shall be filed within 30 days a new interval, a Form 3160-4 shall be filed once ation, have been completed, and the operator has
	thas been completed in several intervals of have been vented/flared. There are two

abandoned well. Use Form 3160-3 (APD) for such proposals. SUBMIT IN TRIPLICATE- Other Instructions on reverse side. Öil Well 🗆 🗆 Gas Well□□ Other 2. Name of Operator Wolverine Gas and Oil Company of Utah, LLC 3a Address 3b. Phone No. (include area code) 55 Campau NW, Grand Rapids, MI 49503 616-458-1150 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2331' FNL, 549' FWL, Sec. 24, T20S, R1E, SLB&M 12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE TYPE OF ACTIO TYPE OF SUBMISSION Acidize Production Deepen Notice of Intent Alter Casing Reclamati Fracture Treat Casing Repair New Construction Recomple Subsequent Report Change Plans Plug and Abandon Temporar. Final Abandonment Notice Water Dis Convert to Injection Plug Back

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting dat If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. F following completion of the involved operations. If the operation results in a multiple completion or recomple testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including determined that the site is ready for final inspection.)

This is the discovery well for a new field with multiple potential oil accumulations. Extensive interest in Navajo1 and Navajo2 reservoirs during which a total of approximately 22 MMCF potentially productive but untested intervals remaining that require testing to confirm productivity and reservoir content, but an extension of the 30-day limit allowed by NTL-4a for flaring/venting of gas is necessary in order to complete this testing. A continuation of the initial flaring/venting period for testing this well for up to 20 additional days is therefore requested so testing operations of intervals at depths of 8942'-8948' and 8854'- 8872' can be completed.

A wellbore schematic showing the current mechanical configuration and test results to date is included herewith.

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed)				
Ellis Peterson	Title	Sr. Produ	ction Engineer	
Signature Ellifff Many	Date	Date 09/11/2008		08
THIS SPACE FOR	R FEDERAL OR	STATE	OFFICE USE	
Approved by Sac L. Hade		Title _	SNRG	Date 9-29-08
Conditions of approval, if any, are attached. Approval of this noticertify that the applicant holds legal or equitable title to those right which would entitle the applicant to conduct operations thereon.		Office	BOLLAGE	o FO
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make i States any false, fictitious or fraudulent statements or representation	it a crime for any person ns as to any matter within	knowingly its jurisdict	and willfully to make	to any department or agency of the Unite



Arapien Valley 24-1 Providence Field API # 43-039-30030 Sanpete County, Utah

(Not to Scale)

Ground Elevation: 5,554' KB Elevation: 5.580'

120 2017' (13-3/8") 9048' 9090' 9104' - 9131' 9145' - 9154' **9160' - 9166'** 9205' **9217' - 9222'** 9950' (stage tool) 10,373' (9-5/8")

12,280

12,369'

TD = 13,050' KB

12,290' - 12,316'

12,373' - 12,380'

12,755' (5-1/2", 20#)

Vertical Well

Surface: 2331' FNL 549' FWL, SW NW, 24-20S-1E Total Depth: 2370' FNL 620' FWL, SW NW, 24-20S-1E

> 9104' - 9166': Recovery: 2215 BO, 2910 BW, 9.7 MMCF Flashed Gas - 1.47 sp. gr., 30 ppm H2S, 79% CO2, 6% N2, 349 BTU/scf

Flashed Oil - 48 °API, 2380 scf/stb

Final Rate: 128 BOPD, 217 BWPD, 740 MCFD w/ 330 psi FTP

9104' - 9131': Recovery: 964 BO, 941 BW, 6.3 MMCF Final Rate: 163 BOPD, 160 BWPD, 1183 MCFD w/ 380 psi FTP

9145' - 9166': Recovery: 550 BO, 129 BW, 1.5 MMCF Final Rate: 150 BOPD, 72 BWPD, 713 MCFD w/ 420 psi FTP

9217' - 9222': Swabbed and flowed 20 hours (recovered 22 BO, 405 BW, gas not measured)

12,290' - 12,316': Recovery: 1338 BO, 122 BW, 4 MMCF Flashed Gas - 1.02 sp. gr., 0.08% H2S, 7% CO2, 9% N2, 1437 BTU/scf Flashed Oil - 48 °API, 2380 scf/stb

Final Rate: 160 BOPD, 20 BWPD, 473 MCFD w/ 200 psi FTP

12,373' - 12,380': Flowed oil and gas (no water) for 21 hours before equipment failure.

Form 3160-5 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

CUMPRY NOTICES AND REPORTS ON WELLS					al No. 0 907
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an					, Allottee or Tribe Name
abandoned well. Use Form 3160 - 3 (APD) for such proposals.					
	IPLICATE- Other instr	ructions on reve	erse side.		CA/Agreement, Name and/or No.
1. Type of Well ☐ ☐ ☐	Gas Well□□			8. Well Na	me and No.
2. Name of Operator Wolverine G	as and Oil Company of Utah.	LLC			ine Federal Arapien Valley 24-1
3a. Address		3b. Phone No. (inclu	de area codel	9. API We	540.505.505.
55 Campau NW, Grand Rapid	s, MI 49503	616-458-1150			d Pool, or Exploratory Area
4. Location of Well (Footage, Sec.,	T., R., M., or Survey Description)			Wildca	t or Parish, State
2331' FNL, 549' FWL, Sec. 24	, T20S, R1E, SLB&M				
10 0777077 17					e County, Utah
	PPROPRIATE BOX(ES) TO			REPORT, OR	COTHER DATA
TYPE OF SUBMISSION		T	TPE OF ACTION		
Notice of Intent	Acidize Alter Casing	Deepen Tour	Production (S	tart/Resume)	Water Shut-Off
Subsequent Report	Casing Repair	Fracture Treat New Construction	Reclamation Recomplete		Well Integrity Other Continued testing
	Change Plans	Plug and Abandon	Temporarily A	bandon	with gas venting
Final Abandonment Notice	Convert to Injection	Plug Back	Water Disposa	I	
determined that the site is ready This is the discovery well f interest in Navajo1 and Na potentially productive but the 30-day limit allowed by flaring/venting period for 1 8948' and 8854'- 8872' can	or a new field with multiple provajo2 reservoirs during which untested intervals remaining y NTL-4a for flaring/venting of testing this well for up to 20 act to completed.	otential oil accumula n a total of approxim that require testing t f gas is necessary in Iditional days is ther onfiguration and test	tions. Extensive testi ately 22 MMCF of g o confirm productivi order to complete the fore requested so teresults to date is inc	ng has been co as have been vo ty and reservo is testing. A co sting operation	mpleted in several intervals of ented/flared. There are two ir content, but an extension of ntinuation of the initial as of intervals at depths of 8942'-
	Oil o	ah Division (Gas and Mir	ning =	Federal Ap	_{proval} Of This _{S Necessary}
		117108	-	ACTION I	-
	Date	HATTO	A		
 I hereby certify that the fore Name (Printed/Typed) 	going is true and et rect	119-3-19(1)		
Ellis Peterson	120	Title	Sr. Production Engi	ieer	
Signature Chi: White Date 09/11/2008					
	THIS SPACE FOR I	EDERAL OR	STATE OFFICE	USE	
Approved by Conditions of approval, if any, are a certify that the applicant holds legal which would entitle the applicant to	or equitable title to those rights in		Title Office	I)ate
		crime for any person as to anymatter within	knowingly and willfull its jurisdiction.	to make to any	department or agency of the United
A Company of A Company of the Compan					

(Instructions on page 2)

SEP 1 5 2008



Arapien Valley 24-1 Providence Field API # 43-039-30030 Sanpete County, Utah

(Not to Scale)

9145' - 9154'

第 9160' - 9166'

9217' - 9222'

9205'

Vertical Well Surface:

Total Depth:

2331' FNL 549' FWL, SW NW, 24-20S-1E 2370' FNL 620' FWL, SW NW, 24-20S-1E

120' 2017' (13-3/8") 9048 9090 9104' - 9131'

Ground Elevation: 5,554'

KB Elevation: 5,580'

9104' - 9166': Recovery: 2215 BO, 2910 BW, 9.7 MMCF Flashed Gas - 1.47 sp. gr., 30 ppm H2S, 79% CO2, 6% N2, 349 BTU/scf

Flashed Oil - 48 °API, 2380 scf/stb

Final Rate: 128 BOPD, 217 BWPD, 740 MCFD w/ 330 psi FTP

9104' - 9131': Recovery: 964 BO, 941 BW, 6.3 MMCF Final Rate: 163 BOPD, 160 BWPD, 1183 MCFD w/ 380 psi FTP

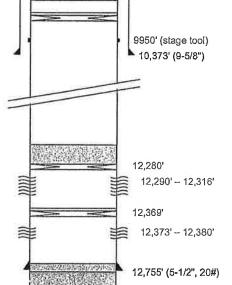
9145' - 9166': Recovery: 550 BO, 129 BW, 1.5 MMCF Final Rate: 150 BOPD, 72 BWPD, 713 MCFD w/ 420 psi FTP

9217' - 9222': Swabbed and flowed 20 hours (recovered 22 BO, 405 BW, gas not measured)

12,290' - 12,316': Recovery: 1338 BO, 122 BW, 4 MMCF Flashed Gas - 1.02 sp. gr., 0.08% H2S, 7% CO2, 9% N2, 1437 BTU/scf Flashed Oil - 48 °API, 2380 scf/stb

Final Rate: 160 BOPD, 20 BWPD, 473 MCFD w/ 200 psi FTP

12.373' - 12.380': Flowed oil and gas (no water) for 21 hours before equipment failure.



TD = 13,050' KB







CONFIDENTIAL

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL GAS AND MINING

	DIVISION OF OIL, GAS AND MIN		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-80907		
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: NA				
Do not use this form for proposals to drill drill horizontal	Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.				
1. TYPE OF WELL OIL WELL			8. WELL NAME and NUMBER: Wolv. Fed. Arapien Valley 24-1		
2. NAME OF OPERATOR: Wolverine Gas and Oil C	ompany of Litab LLC		9. API NUMBER: 4303930030		
3. ADDRESS OF OPERATOR:		PHONE NUMBER:	10. FIELD AND POOL, OR WILDCAT:		
	Grand Rapids STATE MI ZIP 4	9503-2616 (616) 458-1150	Wildcat		
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2331	FNL, 549' FWL		соинту: Sanpete		
QTR/QTR, SECTION, TOWNSHIP, RA	NGE, MERIDIAN: SWNW 24 20S 1E	: S	STATE: UTAH		
11. CHECK APP	ROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPO	RT, OR OTHER DATA		
TYPE OF SUBMISSION		TYPE OF ACTION			
✓ NOTICE OF INTENT	ACIDIZE	DEEPEN	REPERFORATE CURRENT FORMATION		
(Submit in Duplicate)	ALTER CASING	FRACTURE TREAT	SIDETRACK TO REPAIR WELL		
Approximate date work will start:	CASING REPAIR	NEW CONSTRUCTION	TEMPORARILY ABANDON		
	. CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	TUBING REPAIR		
	CHANGE TUBING	PLUG AND ABANDON	VENT OR FLARE		
SUBSEQUENT REPORT (Submit Original Form Only)	CHANGE WELL NAME	PLUG BACK	WATER DISPOSAL		
Date of work completion:	CHANGE WELL STATUS	PRODUCTION (START/RESUME)	WATER SHUT-OFF		
	COMMINGLE PRODUCING FORMATIONS	RECLAMATION OF WELL SITE RECOMPLETE - DIFFERENT FORMATION	OTHER:		
	CONVERT WELL TYPE				
	COMPLETED OPERATIONS. Clearly show all pe	rtinent details including dates, depths, volun	es, etc.		
CONTINUED CONFIDE	NTIAL STATUS REQUESTED				
Wolverine Federal Arani	ested to flare gas for a period of 60 en Valley 24-1 well. This is requesto details are provided in the cover le	ed to establish stabilized produc	and help determine		
Attachments: Completion	n Summary and Results, Well Bore	Schematic			
NAME (PLEASE PRINT) Ellis M. I	Peterson	TITLE Senior Production	on Engineer		
SIGNATURE AliaM	Muson	DATE 10/21/2008			
- ABBBOVED	OV THE STATE		77)		
(This space for State use only)	DIVISION OF Federal A	pproval Of This RECEIV	ED		
OIL GAS	AND MINING Action	IS Mecessary	ONE COMPLETE		
DATE CILL	10%	OCT 2 2 2	2008 CONFIDENTIAL		
DATE	11/211	ctions on Reverse Side) DIV. OF OIL, GAS	B. MINING		
* Day - 1 - necess A flare Stock sho	and demonstrated to the ext	tended textug	1		

			(
Form 3160-5 (April 2004)	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT			ON Exp	ORM APPROVED 4B No. 1004-0137 ires: March 31, 2007
SUNDRY			118	5. Lease Serial No UTU-80907	•
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.			6. If Indian, Allottee or Tribe Name NA		
SUBMIT IN TR	RIPLICATE- Other instr	uctions on rever	se side.	7. If Unit or CA/Agreement, Name and/or No.	
 Type of Well Oil Well □ □ 	Gas Well□□ Other			Wolverine 8. Well Name a	
2. Name of Operator Wolverine (Gas and Oil Company of Utah, I	LLC			Federal Arapien Valley 24-1
3a Address 55 Campau NW, Grand Rapi		3b. Phone No. (include 616-458-1150	area code)	43-039-300	30
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)				10. Field and Pool, or Exploratory Area Wildcat	
2331' FNL, 549' FWL, Sec. 2				11. County or Pa	
12. CHECK A	PPROPRIATE BOX(ES) TO	INDICATE NATUR	E OF NOTICE, R	EPORT, OR OT	THER DATA
TYPE OF SUBMISSION		TYP	E OF ACTION		
Notice of Intent Subsequent Report Final Abandonment Notice	Acidize Alter Casing Casing Repair Change Plans Convert to Injection	Deepen Fracture Treat New Construction Plug and Abandon Plug Back	Production (Sta Reclamation Recomplete Temporarily Ab Water Disposal	✓	Water Shut-Off Well Integrity Other Extended production test with flaring gas
If the proposal is to deepen dir Attach the Bond under which following completion of the in	ted Operation (clearly state all pertin ectionally or recomplete horizontally the work will be performed or provid volved operations. If the operation reinal Abandonment Notices shall be fight for final inspection.)	y, give subsurface location de the Bond No. on file w results in a multiple compl	is and measured and tru- rith BLM/BIA. Require letion or recompletion in	e vertical depths of a d subsequent report n a new interval, a F	all pertinent markers and zones. s shall be filed within 30 days from 3160-4 shall be filed once

Approval is hereby requested to flare gas for a period of 60 days while production testing the Navajo2 Formation at the Wolverine Federal Arapien Valley 24-1 well. This is requested to establish stabilized producing rates and help determine commercially. Additional details are provided in the cover letter to this notice and in the attached Completion Summary and Results.

Attachments: Completion Summary and Results, Well Bore Schematic, UDOGM Approval for Extended Flaring

				44
			est.	
 I hereby certify that the foregoing is true and correct Name (Printed/Typed) 	1		- P.	
Ellis Peterson	Title Si	. Production Engineer	#H	# 1 5 5
Signature Chille Marin	Date	11/10/200	1.72	यों @ क्रि. ए
THIS SPACE FOR FE	DERAL OR S	TATE OFFICE USE		50
Approved by Stor L. Aut	Т:	itle SNRS	Date 11-20-08	
Conditions of approval, if an are attached. Approval of this notice doc certify that the applicant holds legal or equitable title to those rights in the which would entitle the applicant to conduct operations thereon.		ffice RICHFIELD	F.O.	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cr	ime for any person kn	owingly and willfully to make to	any department or agency of	the United

(Instructions on page 2)

UNITED STATES

Form 3160-5 (April 2004)					FORM APPROVED OM B No. 1004-0137 Expires: March 31, 2007			
BUREAU OF LAND MANAGEMENT					5. Lease Serial	l No.		
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an					6. If Indian, Allottee or Tribe Name			
abandoned well. Use Form 3160-3 (APD) for such proposals.				ls.	NA			
SUBMIT IN T	RIPLICATE- Other inst	ructions on r	everse si	de.		CA/Agreement, Nam ine Unit	e and/or No.	
1. Type of Well Oil Well □	Gas Well□□ Other			-	8. Well Nan			
2. Name of Operator Wolverine	Gas and Oil Company of Utah.	LLC			Providence Federal 24-4 9. API Well No.			
3a. Address		3b. Phone No. (i		ode)	43-039-	30040		
55 Campau NW, Grand Rapi		616-458-115	0		10. Field and Wildcat	Pool, or Exploratory	Area	
4. Location of Well (Footage, Sec.				-		or Parish, State		
975' FSL, 41' FWL, Sec. 24,	1203, RIE, SLIBEN				Sanpete	County, Utah		
12. CHECK A	APPROPRIATE BOX(ES) TO	INDICATE NA	ATURE OF	NOTICE, REI	PORT, OR	OTHER DATA		
TYPE OF SUBMISSION			TYPE OF	ACTION				
17	Acidize	Deepen	1	Production (Start/	Resume)	Water Shut-Off		
Notice of Intent	Alter Casing Casing Repair	Fracture Treat New Construc		Reclamation Recomplete		Well Integrity Other Continu	ed testing	
Subsequent Report	Change Plans	Plug and Abar		recomplete Femporarily Abar	ndon 🌯	-	venting	
Final Abandonment Notice	Convert to Injection	Plug Back	_	Water Disposal				
testing has been completed. I determined that the site is rear accumulations. Extensive than 10 MMCF of gas we produce the Navajo1 corfor sufficient time as need limit allowed by NTL-4a initial flaring/venting perinclusive of the gas producessing the gas, and the	avolved operations. If the operation in Abandonment Notices shall be by for final inspection.) 24-4 is the first confirmation te testing has been completed on as vented/flared. After venting appletion interval in order to colded to acquire production data for flaring/venting of gas will ried for up to 30 additional day used to date does not exceed 50 the gas being flared has low BT owing the current mechanical countries.	st to a new field of several intervals or flaring on 27 of lect down-hole flarequired for det not allow adequates is requested. To MMCF, This we U and no market	equirements, i liscovery an s of interest i lays while te uid samples ermining if i te fime to co otal product ell is located value in an	ncluding reclamat d it had apparet n Moenkopi and sting various pe for laboratory t he well can prod mplete necessar; ion will be limite in an isolated ar unprocessed sta	nt multiple p d Navajo1 for for ation in intesting. It the duce paying y testing of feed without ite.	n completed, and the or potential hydrocart ormations during w tervals, there is stil en needs to continu quantities. Becaus the well, a continua te total gas vented/f infrastructure for s	perator has oon which no more I need to e producing e the 30-day tion of the lared hipping or	7 D
							24 2009	لالا
14. I hereby certify that the for Name (Printed/Typed)	regoing is true and correct	Ĩ						
Ellis Peterson		Т	itle Sr. Pro	duction Enginee	r]	Richfield B	LM Field	Office
Signature	Alum	Г	Date	07	/22/2009			
	THIS SPACE FOR	FEDERAL C	OR STAT	E OFFICE (USE			
certify that the applicant holds le- which would entitle the applicant	e attached. Approval of this notice gal or equitable title to those rights to conduct operations thereon. itle 43 U.S.C. Section 1212, make it fullent statements or representations	in the subject lease	or Office	SNIZS Richell and willfully to	KUD	FIELD	7-09 Office by of the United	*E
States any false, fictitious or frauc	lulent statements or representation	s as to anymatter w	ithin its juris	liction.		":		

(Instructions on page 2)

ATTPCHED COA

Condition of Approval:

"A 30-day extension is granted for Wolverine Gas & Oil to vent/flare gas on the Providence 24-4 well through August 24, 2009. Should Wolverine need more time to vent or flare this well, an additional extension may be requested from the BLM Richfield Field Office."

Form 3160-5 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR BURGALLORI AND MANAGEMENT

BUREAU OF LAND MAI			Expires: March 31, 2007		
	5. Lease Se	rial No.			
SUNDRY NOTICES AND RE Do not use this form for proposals	UTU-	nn, Allottee or Tribe Name			
abandoned well. Use Form 3160 - 3	ils. NA	, raiotico di Tribe i dalle			
SUBMIT IN TRIPLICATE- Other inst	ructions on reverse s	ide. 7. If Unit	or CA/Agreement, Name and/or No.		
1. Type of Well Oil Well Gas Well Ofher			erine Unit		
2. Name of Operator Wolverine Gas and Oil Company of Utah,	IIC		8. Well Name and No. Providence Federal 24-4		
3a. Address		9. APIW	'ell No. 9-30040		
55 Campau NW, Grand Rapids, MI 49503	3b. Phone No. (include area c 616-458-1150		nd Pool, or Exploratory Area		
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)		Wilde			
975' FSL, 41' FWL, Sec. 24, T20S, R1E, SLB&M		.11. County	or Parish, State		
			te County, Utah		
12. CHECK APPROPRIATE BOX(ES) TO	INDICATE NATURE OF	NOTICE, REPORT, O	R OTHER DATA		
TYPE OF SUBMISSION	TYPE OF	ACTION			
Notice of Intent Acidize Alter Casing		Production (Start/Resume) Reclamation	Water Shut-Off Well Integrity		
Subsequent Report Casing Repair		Recomplete	Other Continued testing		
Final Abandonment Notice Convert to Injection		emporarily Abandon	with gas venting		
Describe Proposed or Completed Operation (clearly state all perting the Proposed Operation (clearly state all perting	- Landard Control Control	Vater Disposal			
Attach the Bond under which the work will be performed or provifollowing completion of the involved operations. If the operation testing has been completed. Final Abandonment Notices shall be determined that the site is ready for final inspection.) The Providence Federal 24-4 is the first confirmation test accumulations. Extensive testing has been completed on than 10 MMCF of gas was vented/flared. After venting of produce the Navajo1 completion interval in order to coll for sufficient time as needed to acquire production data i limit allowed by NTL-4a for flaring/venting of gas will minitial flaring/venting period for up to 30 additional days inclusive of the gas produced to date does not exceed 50 it processing the gas, and the gas being flared has low BTU A wellbore schematic showing the current mechanical co	results in a multiple completion or filed only after all requirements, in to a new field discovery and several intervals of interest in or flaring on 27 days while testect down-hole fluid samples frequired for determining if the tallow adequate time to comits requested. Total production MMCF. This well is located if and no market value in an u	recompletion in a new intervaluding reclamation, have been it had apparent multiple. Moenkopi and Navajol fiting various perforation in a laboratory testing. It the well can produce paying aplete necessary testing of an will be limited so that the an isolated area without approcessed state.	I, a Form 3160-4 shall be filed once in completed, and the operator has potential hydrocarbon formations during which no more itervals, there is still need to en needs to continue producing quantities. Because the 30-day the well, a continuation of the set total gas vented/flared infrastructure for shipping or		
14. I hereby certify that the foregoing is true and correct Name (Printed/Typed)	ì	-,			
Ellis Peterson	Title Sr. Produ	ction Engineer			
Signature Sellement	Date	07/22/2009			
THIS SPAGE FOR F	EDERAL OR STATE	OFFICE USE			
Approved by Conditions of approval, if any, are attached. Approval of this notice descrify that the applicant holds legal or equitable title to those rights in which would entitle the applicant to conduct operations thereon.	oes not warrant or the subject lease Office	difig. 0	ate 7/30/09		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a	crime for any person knowingly	and willfully to make to any	department or agency of the United		
tates any false, fictitious or fraudulent statements or representations a	s to anymatter within its jurisdic	tion.	RECEIVED		

(Instructions on page 2) & Required Testing

JUL 27 2009

Form 3160-5 (April 2004)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED	
OM B No. 1004-0137	
Expires: March 31, 2007	١

5.	Lease	Serial No.
	TITE	7 20007

SUNDRY NOTICES AND REPORTS ON WELLS				лац Ivo. 30907
Do not use this form for proposals to drill or to re-enter an				n, Allottee or Tribe Name
abandoned well. Use Form 3	NA			
SUBMIT IN TRIPLICATE- Other instructions on reverse side.				or CA/Agreement, Name and/or No.
1. Type of Well ☐ ☐ Gas Well ☐ ☐	Other			ame and No.
2. Name of Operator Wolverine Gas and Oil Company				lence Federal 24-4
		*	9. APIW	
3a. Address 55 Campau NW, Grand Rapids, MI 49503	3b. Phone N 616-458-1	o. (înclude area code, l 150		9-30040 nd Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey De	escription)		Wilde	
975' FSL, 41' FWL, Sec. 24, T20S, R1E, SLB&M			11. County	or Parish, State
			Sanpe	te County, Utah
12. CHECK APPROPRIATE BOX	X(ES) TO INDICATE	NATURE OF N	OTICE, REPORT, O	R OTHER DATA
TYPE OF SUBMISSION		TYPE OF AC		
Acidize	Deepen		luction (Start/Resume)	Water Shut-Off
✓ Notice of Intent Alter Casing	Fracture Tr		lamation	Well Integrity
Subsequent Report Casing Repair	r New Cons	F	omplete	Other Continued testing
Change Plans	Plug and A	bandon Ten	porarily Abandon	with gas venting
Convert to Inje	ection Plug Back	Wat	er Disposal	
determined that the site is ready for final inspection.) The Providence Federal 24-4 is the first confirmulation has been completed at this well on several interpretation of gas did not allow requested and granted through August 24, 200 controlled flow conditioning and subsurface sa have changed from initial daily volumes of 126 250 psi on August 21, 2009. Total gas producte to be established for this field based in part on September 23, 2009 is requested to allow produvented/flared inclusive of the gas produced to a September 23, 2009.	rvals of interest in the N v adequate time to comp 19. During the 30-day ex empling, so the well was 12 MCF, 205 BO, and 11 on from the well throug extrapolation of stable uction trends to be bette	foenkopi and Navi lete the necessary tension period, a p produced continu: BW with FTP of a h August 21, 2009 performance of this tr defined. Total us	ijoI formations. Becaustesting of this well, and iressure build-up test wally for only 17 days. P. 405 psi to 747 MCF, 10 was 25.5 MMCF. Because well, continued flow it oduction will be limites not appear that this li	se the 30-day limit allowed by extension to allow flaring was as conducted and followed by roducing rates during flow testing 5 BO, and 46 BWPD with FTP of use potential commerciality needs testing with flaring through d if necessary so that the total gas mit will be exceeded prior to
14 71 1 16 16 16 16 1				
 I hereby certify that the foregoing is true and corr Name (Printed/Typed) 	ect			BLM Field Office
Ellis Peterson		Title Sr. Producti	on Engineer	2011 (1.5.) 1 Santage 4 Santage
Signature Misson		Date	08/24/2009	
THIS SPACE	FOR FEDERAL	OR STATE C	FFICE USE	
SPAI			360-	2611-
Approved by Conditions of approval, if any, are attached. Approval of t	hip potion docs	Title	11/25	Date 8/26/89
certify that the applicant holds legal or equitable title to the	ise rights in the subject lea	se Office	7	Green Dec

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CONFIDE ...AL

Form 3160-5 April 2004) DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.				5. Lease Serial UTU-809	
	IPLICATE- Other ins	tructions on rever	se side.		CA/Agreement, Name and/or No.
1. Type of Well Oil Well□ □	Gas Well Other			8. Well Name and No.	
2. Name of Operator Wolverine Ga	as and Oil Company of Utal	ı, LLC		9. API Wel	
3a. Address 55 Campau NW, Grand Rapids	s, MI 49503	3b. Phone No. (include 616-458-1150	area code)	43-039-3 10. Field and	Pool, or Exploratory Area
4. Location of Well (Footage, Sec., 1	I., R., M., or Survey Description,)		Wildcat	
975' FSL, 41' FWL, Sec. 24, T20S, R1E, SLB&M				11. County or Parish, State Sanpete County, Utah	
12. CHECK AP	PROPRIATE BOX(ES) T	O INDICATE NATURI	E OF NOTICE, RI	PORT, OR	OTHER DATA
TYPE OF SUBMISSION	4	TYP	E OF ACTION		
Notice of Intent Subsequent Report Final Abandonment Notice	Acidize Alter Casing Casing Repair Change Plans Convert to Injection	Deepen Fracture Treat New Construction Plug and Abandon Plug Back	Production (Sta Reclarnation Recomplete Temporarily Ab: Water Disposal		Water Shut-Off Well Integrity Other Continued testing with gas venting
Attach the Bond under which the following completion of the inv	ctionally or recomplete horizonta to work will be performed or pro clived operations. If the operational hal Abandonment Notices shall b	ally, give subsurface location wide the Bond No. on file wi on results in a multiple complete.	s and measured and true ith BLM/BIA. Require etion or recompletion in	e vertical depths d subsequent re a new interval,	k and approximate duration thereof, of all pertinent markers and zones, ports shall be filed within 30 days a Form 3160-4 shall be filed once completed, and the operator has
The Providence Federal 24 has been completed at this NTL-4a for flaring/venting requested and granted thre controlled flow conditionin have changed from initial (250 psi on August 21, 2009 to be established for this fit September 23, 2009 is requested.	I-4 is the first confirmation t well on several intervals of it to f gas did not allow adequa- ough August 24, 2009. During and subsurface sampling, daily volumes of 1262 MCF, Total gas production from eld based in part on extrapo	interest in the Moenkopi ate time to complete the n ng the 30-day extension p, so the well was producet, 205 BO, and 11 BW with the well through August blation of stable performa rends to be better defined	and Navajo1 format lecessary testing of the leciod, a pressure but it continually for only it FTP of 405 psi to 7 21, 2009 was 25.5 M. Ince of this well, con. Total production v	tions. Because his well, an ex ild-up test wa y 17 days. Pro 47 MCF, 105 IMCF. Becau tinued flow te vill be limited	s conducted and followed by oducing rates during flow testing BO, and 46 BWPD with FTP of see potential commerciality needs sting with flaring through if necessary so that the total gas

September 23, 2009. RECEIVED

AHR 27 anno

	AUG 27 2009
	DIV OF OIL, CAS & MINING
14. I hereby certify that the foregoing is true and correct Name (Printed/Typed)	
Ellis Peterson	Title Sr. Production Engineer
Signature Ellis Monteur	Date 08/24/2009
THIS SPACE FOR FEDERAL	L OR STATE OFFICE USE
Approved by	Title Pet Eng. Date 9/8/09
Conditions of approval, if any, are attached. Approval of this notice does not warrancertify that the applicant holds legal or equitable title to those rights in the subject lewhich would entitle the applicant to conduct operations thereon.	
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any States any false, fictitious or fraudulent statements or representations as to any matter.	person knowingly and willfully to make to any department or agency of the United or within its jurisdiction.
(Instructions on page 2) RGU9-3-19-3	,

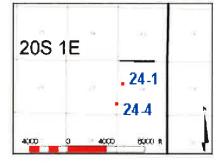
Test Results Summary

Navajo 1

24-4 Perf Summary:

9014 - 9039 & Test W/ 9050 – 9066, flowed 205 BOPD, 11 BWPD, 1263 MCFD @ 405 FTP

- 9050 9066, flowed 60 BOPD, 0 BWPD, 500 MCFD
- 9078 9084, & 9092 9104,flowed 72 BOPD, 288 BWPD, Gas not measured, Sgzd
- 9117 9126, Swb 96 BO & W Tight, Sqzd

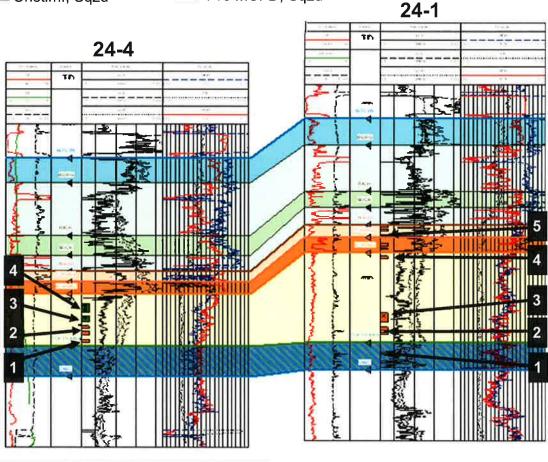


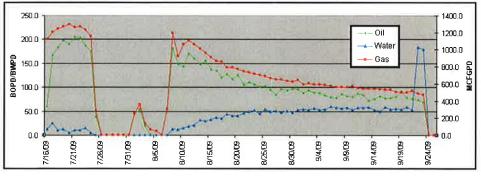
Cumulative Production From 61-Day Flow Test Perf. Sets 3 & 4 of the 24-4 7-16-09 to 9-25-09

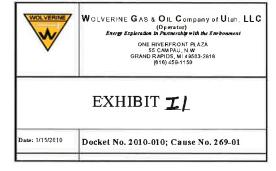
6,597 BO 44,738 MCFG 2,538 BW

24-1 Perf Summary:

- 8854 8860, 8865 -8871, 8881 - 8883, 8904 - 8914, 8920 -8922, Tight Sqzd
- 8942 8948, flowed 40 BOPD, 0 BWPD, & 354 MCFD Unstim., Sqzd
- 9104 9131, flowed 163 BOPD,160 BWPD, & 1183 MCFD, Sgzd
- 9217 9222, flowed 1 40 BOPD,550 BWPD, Sqzd
- 9145 9154 & 9160 – 9166, flowed 150 BOPD, 72 BWPD, & 713 MCFD, Sqzd

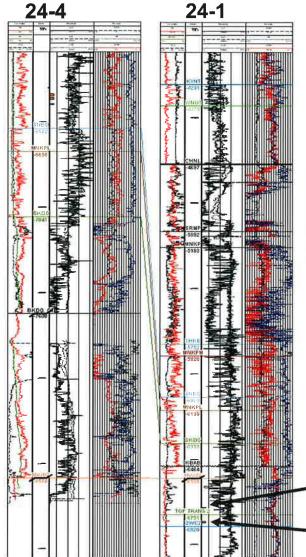




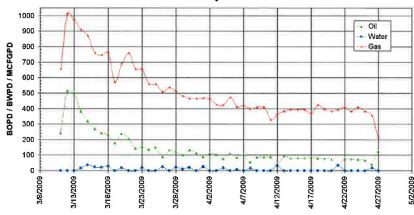


Test Results Summary Navajo 2

- Navajo 2 in 24- 4 was encountered 2033' low to Navajo 2 in 24-1.
- Sinbad to Navajo 2 isopach thickness in 24-1 was 760'.
- Sinbad to Navajo 2 isopach thickness in 24-4 was 2052'.







Navajo2 Formation

Perforations: 12,290'- 12,316'

Stimulation: Fracture, 50000 lbs 30/50 mesh HSP

Final Rates: 73 BOPD, 0 BWPD, and 409 MCFD with FTP of 80 psi

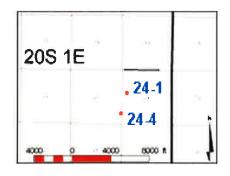
Artificial Lift: Plunger Producing Days: 55 days

Recovery: 9159 BO, 737 BW, and 32.2 MMCF (gross field estimates)

12,290 – 12,316: 47-day flow test after frac final rate: 73 BOPD, 0

BWPD, 409 MCFPD

12,373 – 12,380, 113 BO with no water or stable gas measurement





FESCO, Ltd. 1100 Fesco Ave. - Alice, Texas 78332

For: Wolverine Gas and Oil Corporation

One Riverfront Plaza 55 Campau NW Grand Rapids, Michigan 49503-2616

Sample: Arapien Valley 24-1

Gas Sales Line

Spot Gas Sample @ 160 PSIG & 72 °F

Date Sampled: 5/11/2008

Job Number: 83388.001

CHROMATOGRAPH EXTENDED ANALYSIS - SUMMATION REPORT

COMPONENT	MOL%	GPM
Hydrogen Sulfide*	0.100	
Nitrogen	11.753	
Carbon Dioxide	8.128	
Methane	63.235	
Ethane	8.433	2.301
Propane	4.093	1.150
Isobutane	1.303	0.435
n-Butane	1.364	0.439
2-2 Dimethylpropane	0.020	0.008
Isopentane	0.594	0.222
n-Pentane	0.368	0.136
Hexanes	0.341	0.143
Heptanes Plus	0.268	0.114
Totals	100.000	4.948

Computed Real Characteristics Of Heptanes Plus:

Specific Gravity	3.427	(Air=1)
Molecular Weight	98.93	
Gross Heating Value	5286	BTU/CF

Computed Real Characteristics Of Total Sample:

Specific Gravity	0.838	(Air=1)
Compressibility (Z)	0.9965	
Molecular Weight	24.20	
Gross Heating Value		
Dry Basis	1075	BTU/CF
Saturated Basis	1057	BTU/CF

^{*}Hydrogen Sulfide tested on location by: Stained Tube Method (GPA 2377)

Results: 62.89 Gr/100 CF, 1000.0 PPMV or 0.100 Mol %

Base Conditions: 15.025 PSI & 60 Deg F

Certified: FESCO, Ltd. - Alice, Texas

Analyst: CW Processor: RG Cylinder ID: G-1193

David Dannhaus 361-661-7015





Applied Technology Services

1210 D Street, Rock Springs, WY 82901 (307) 352-7292

Meter Name: Field Name:

Analyst:

Providence Federal 24-4

COVENANT FIELD [sic, Providence Field] **MCMILLAN**

Meter Location #: Cylinder Pressure:

Line Pressure:

W244 15

Report Date: Sample Dates(s): 06/24/2009 to 06/24/2009

06/24/2009 18:03

Flowing Temp: 75

Gas Analysis by Chromatograph @14.73

NAME Nitrogen Methane	MOLE%	BTU	SĞ	GPM 0.0000
	5.4866	0.0000	0.0531 0.0337	
	6.0871	61.6219		0.0000
CO2	80.7442	0.0000	1.2269	0.0000
Ethane H2S	1.8978	33.6631		0.5074 0.0000
	0.0000	0.0000 0.0000	0.0000	
Propane	1.8620	46.9582	0.0283	0.5128
i-Butane	0.4437	14.4621	0.0089	0.1452
n-Butane i-Pentane n-Pentane Hexanes Heptanes Octanes	1.1453	37.4496	0.0230 0.0124 0.0146	0.3610
	0.4985	19.9906		0.1823
	0.5841	23.4690		0.2117
	0.6275		0.0187	0.2580 0.1840
	0.3990		0.0138	
	0.1821		0.0072	0.0933
Nonanes	0.0421	2.9523	0.0019	0.0237
Ideal Total	100.0000	303.8909	1.4621	2.4793

Gross BTU/Real Cu Ft. @ 60 deg F

Pressure Base = 14.73 14.65 15.025 Dry = 305.7456304.0750 311.9070 Saturated = 301.4516299.7803 307.6153 **Actual BTU** = 305.7456304.0750 311.9070 **Real S.G.** = 1.4704561.470407 1.470636 Compressibility = 0.993934 0.993967 0.993812

Gasoline Content

Pressure Base = 14.73 Propane GPM = 0.5128Butane GPM = 0.506114# Gasoline GPM = 1.0603 **26# Gasoline GPM** = 1.4865Total GPM = 2.4793

Sulfur Content

Dewpoints

H2O #/mmcf = N/AHydrocarbon = N/A@ psig = N/A

Comments

Hydrocarbons In-Place

- Hydrocarbons in-place calculation based on:
 - Log derived porosity and Sw
 - Structure mapped from well control and seismic interpretation
 - Navajo 1: CoreLab PVT analysis (Boi = 2.657)
 - Navajo 1 OOIP = 10,199,420 STB
 - Navajo 2: Fesco PVT analysis (Boi = 2.2)
 - Navajo 2 OOIP = 540,890 STB

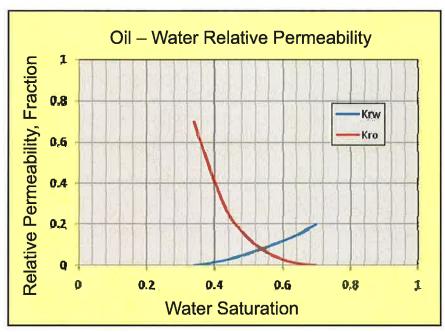


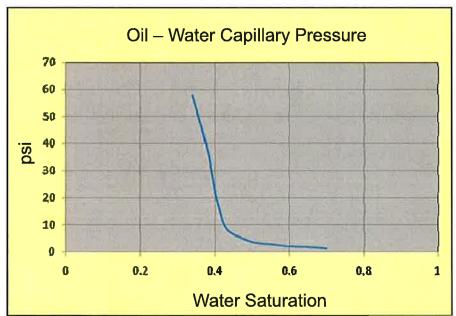
Objective

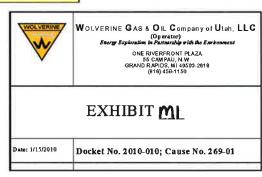
- fluid properties and low permeability First look model to sensitize recovery to volatile
- Course-gridded model, 3 layers and simple geology
- injection Investigate feasibility of field development and gas
- Results summarized are for optimistic scenario

EXHIBIT _

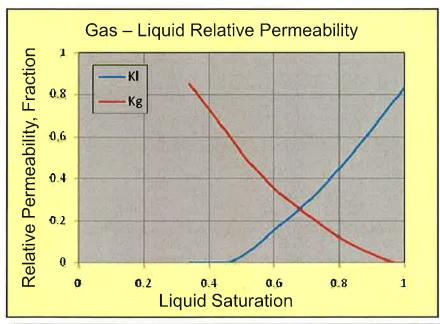
Oil – Water Relative Permeability

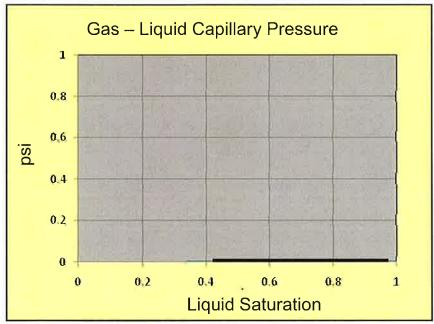






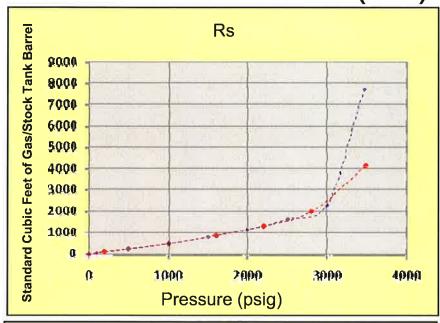
Gas – Liquid Relative Permeability

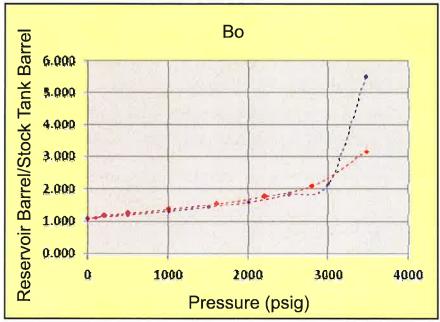


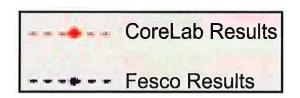


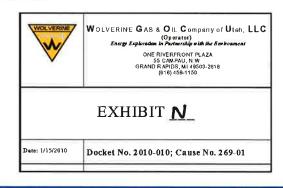


Solution GOR (Rs) and Formation Volume Factor (Bo)

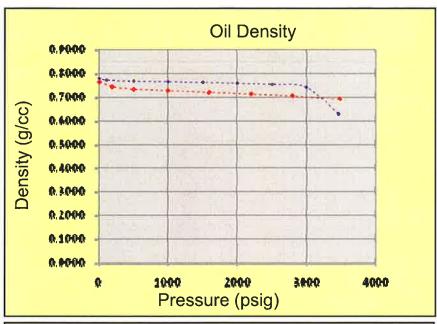


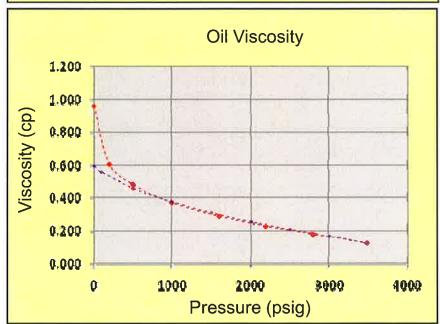


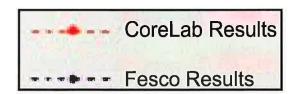


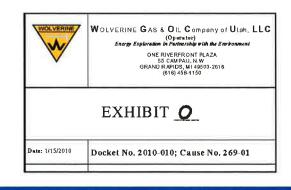


Oil Density and Viscosity

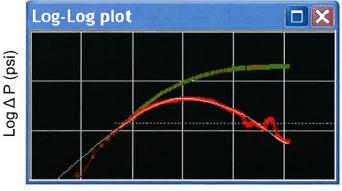






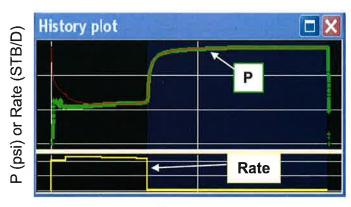


Arapien Valley 24-1 PTA kh = 20.4 md-ft

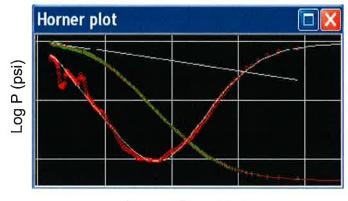


Log ∆t (hrs)





Time (hrs)



Horner Time (dim)



Shut-in Time (hrs)

Standard Oil Test

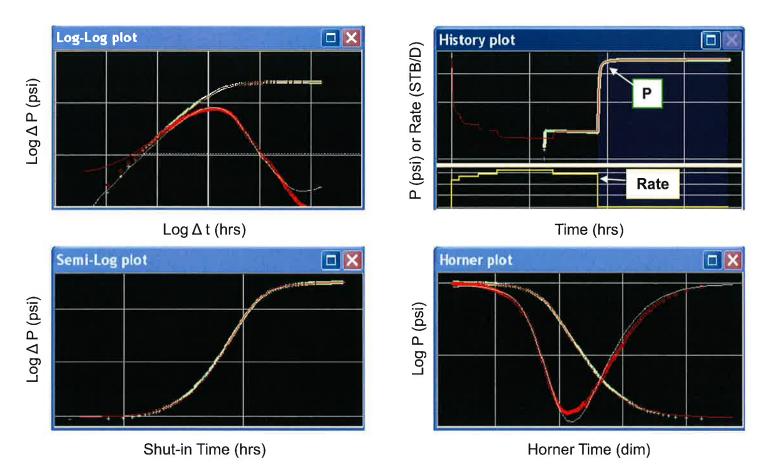
Well = Vertical Reservoir = Two layers Boundary = Infinite

Pi - 0522.64 psia k.h = 20.4 md.ft0mega = 0.00702Lambda = 4.96E-7 Kappa = 0.12Skin1 = -4.67Skin2 = 6.56C = 0.00448 bbl/psi

- Points represent actual data; lines are the best fit model match
- Log-Log and Horner Plots show measured parameters in red and derivative curve in green



Providence Federal 24-4 PTA kh = 53.5 md-ft

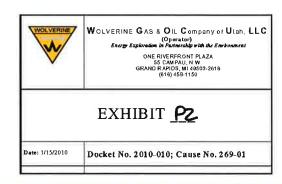


Standard Oil Test

Well = Vertical Reservoir = Two layers Bcundary = Infinite

Pi = 3550 psia k.h = 53.5 md.ft Omega = 0.0158 Lambda = 6.87E 7 Kappa = 0.869 Skin1 = 4.61 Skin2 = 7.85 C = 0.012 bbl/psi

- Points represent actual data; lines are the best fit model match
- Log-Log and Horner Plots show measured parameters in red and derivative curve in white



Conclusions and Recommendations

- Recovery from existing two wells is estimated to 0.97
 MMSTB (10-yr EUR)
- Recovery from one producer, one well converted to gas re-injection well, is estimated to 0.91 MMSTB (10-yr EUR)
- Additional drilling cannot be justified at this time
- Additional testing and subsequent modeling is recommended prior to determining an ultimate plan of depletion

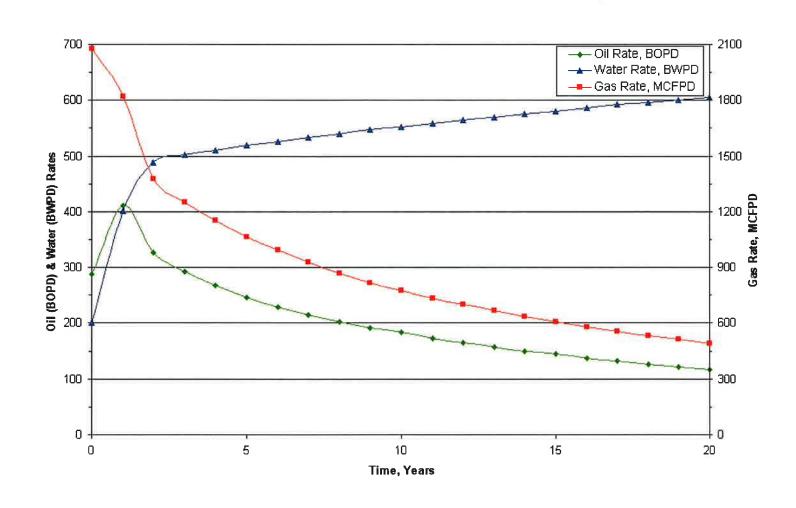


Basis of Evaluation

- Production Forecast from modeling for two producing wells ("best-case")
- Capital costs for drilling, completing, and equipping two wells
- Options considered
 - Option 1: Flaring and venting produced gas
 - Produce existing 2 wells
 - Option 2: Reinjection of gas
 - Produce 1 well, convert 1 well to injection
 - Option 3: Gas treatment, transportation, and sale
 - Produce 2 existing wells



Providence Field: Two Well Model Forecast





Option 1: Flaring and Venting Produced Gas (Produce existing 2 wells)

- Require conventional oilfield handling methods: in-line heater, high-pressure separator, heater treater, crude oil tankage, flare knock-out, and flare unit
 - Engineer's estimate ~ \$1.4 million in new equipment
- Requires re-working wells to improve rates
- Capital costs for drilling, completing, and equipping wells: \$32.3 million
- Economic Analysis
 - Oil Price \$70/STB
 - OPEX: \$9500/month/well, plus water disposal
 - Discounted cashflow @ 10% : \$767,600



Option 2: Re-injection of Gas (1 Producing well & 1 gas injection well)

- Require conventional oilfield handling methods: in-line heater, high-pressure separator, heater treater, crude oil tankage, flare knock-out, and flare unit
 - Engineer's estimate ~ \$1.4 million in new equipment
- Requires additional capital investment for gas compression and dehydration
 - Engineers estimate: ~ \$1.0 million
- Requires re-working well to improve rates and conversion of well to injection (and subsequent loss of revenue from well)
- Capital costs for drilling, completing, and equipping wells, plus re-injection: \$33.3 million
- Economic Analysis
 - Oil Price \$70/STB
 - OPEX: \$9500/month/well, plus water disposal
 - Discounted cashflow @ 10% : negative



Option 3: Gas Treatment, Transportation, and Sale (2 producing wells)

- Require conventional oilfield handling methods: inline heater, high-pressure separator, heater treater, crude oil tankage, flare knock-out, and flare unit
 - Engineer's estimate ~ \$1.4 million in new equipment
- Requires additional capital investment for gas treatment plant to remove CO₂, nitrogen, and H₂S
 - Engineers estimate: ~ \$8.2 million (does not include polishing unit)
- Requires construction of 4.6-mile pipeline and metering station
- Requires re-working well to improve rates and conversion of well to injection
- Capital costs for drilling, completing, and equipping wells, treatment plant and pipeline: \$42.3 million
- Economic Analysis
 - Oil Price \$70/STB
 - OPEX: \$9500/month/well, plus water disposal
 - Discounted cashflow @ 10% : negative



